

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	624	(562/507).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2005/07/07 12:09
L2	2	("6289286").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/07 12:09
L3	2	("6586587").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/07 12:09
L4	2	("6289286").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/07 12:09
L5	2	("6586587").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/07/07 12:09
L6	2	("4166842").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2005/07/07 12:09
L7	2	("5808150").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2005/07/07 12:09
L8	0	diaminocyclohex\$	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/07/07 12:09
L9	5381	diaminocyclohex\$	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/07/07 12:09
L10	12	L1 and L9	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/07/07 12:09
L11	13228	chloroacetic or bromoacetic or iodoacetic	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/07/07 12:09

L12	26	L1 and L11	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/07/07 12:09
L13	4	"2519708".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/07/07 12:09
L14	2	"5808150".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/07/07 12:09
L15	5	L9 and L12	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/07/07 12:09
L16	2	"6867327".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/07/07 12:28

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID: SSSPTA1623PAZ

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * * * * * * * * * * * Welcome to STN International * * * * * * * * * * * * * * *

NEWS 1 Web Page URLs for STN Seminar Schedule - N. America
NEWS 2 "Ask CAS" for self-help around the clock
NEWS 3 FEB 28 PATDPAFULL - New display fields provide for legal status data from INPADOC
NEWS 4 FEB 28 BABS - Current-awareness alerts (SDIs) available
NEWS 5 MAR 02 GBFULL: New full-text patent database on STN
NEWS 6 MAR 03 REGISTRY/ZREGISTRY - Sequence annotations enhanced
NEWS 7 MAR 03 MEDLINE file segment of TOXCENTER reloaded
NEWS 8 MAR 22 KOREPAT now updated monthly; patent information enhanced
NEWS 9 MAR 22 Original IDE display format returns to REGISTRY/ZREGISTRY
NEWS 10 MAR 22 PATDPASPC - New patent database available
NEWS 11 MAR 22 REGISTRY/ZREGISTRY enhanced with experimental property tags
NEWS 12 APR 04 EPFULL enhanced with additional patent information and new fields
NEWS 13 APR 04 EMBASE - Database reloaded and enhanced
NEWS 14 APR 18 New CAS Information Use Policies available online
NEWS 15 APR 25 Patent searching, including current-awareness alerts (SDIs), based on application date in CA/CAplus and USPATFULL/USPAT2 may be affected by a change in filing date for U.S. applications.
NEWS 16 APR 28 Improved searching of U.S. Patent Classifications for U.S. patent records in CA/CAplus
NEWS 17 MAY 23 GBFULL enhanced with patent drawing images
NEWS 18 MAY 23 REGISTRY has been enhanced with source information from CHEMCATS
NEWS 19 JUN 06 STN Patent Forums to be held in June 2005
NEWS 20 JUN 06 The Analysis Edition of STN Express with Discover! (Version 8.0 for Windows) now available
NEWS 21 JUN 13 RUSSIAPAT: New full-text patent database on STN
NEWS 22 JUN 13 FRFULL enhanced with patent drawing images
NEWS 23 JUN 20 MEDICONF to be removed from STN
NEWS 24 JUN 27 MARPAT displays enhanced with expanded G-group definitions and text labels
NEWS 25 JUL 01 MEDICONF removed from STN

NEWS EXPRESS JUNE 13 CURRENT WINDOWS VERSION IS V8.0, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 13 JUNE 2005

NEWS HOURS STN Operating Hours Plus Help Desk Availability
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NEWS LOGIN Welcome Banner and News Items
NEWS PHONE Direct Dial and Telecommunication Network Access to STN
NEWS WWW CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that specific topic.

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FILE 'HOME' ENTERED AT 09:53:03 ON 07 JUL 2005

FILE 'REGISTRY' ENTERED AT 09:53:11 ON 07 JUL 2005
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STRUCTURE FILE UPDATES: 6 JUL 2005 HIGHEST RN 853990-77-9
DICTIONARY FILE UPDATES: 6 JUL 2005 HIGHEST RN 853990-77-9

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TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

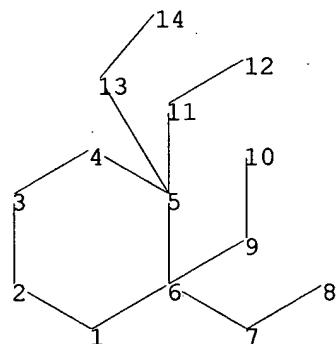
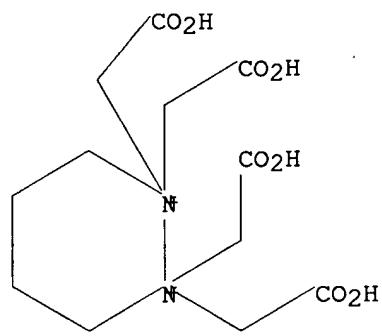
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```
*****
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added,   *
* effective March 20, 2005. A new display format, IDERL, is now      *
* available and contains the CA role and document type information. *
*****
```

Crossover limits have been increased. See HELP CROSSOVER for details.

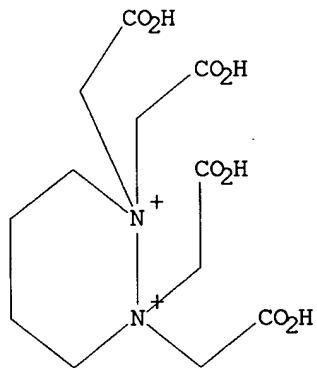
Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=>
Uploading C:\Documents and Settings\PZucker\My Documents\Examination Auxillary files\10731123\10731123 compound.str



L1 STRUCTURE UPLOADED

=> d 11
L1 HAS NO ANSWERS
L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> logoff hold
COST IN U.S. DOLLARS
FULL ESTIMATED COST

| SINCE FILE ENTRY | TOTAL SESSION |
|------------------|---------------|
| 0.86 | 1.07 |

SESSION WILL BE HELD FOR 60 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 09:54:32 ON 07 JUL 2005

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSSPTA1623PAZ

PASSWORD:
* * * * * RECONNECTED TO STN INTERNATIONAL * * * * *
SESSION RESUMED IN FILE 'REGISTRY' AT 09:56:51 ON 07 JUL 2005
FILE 'REGISTRY' ENTERED AT 09:56:51 ON 07 JUL 2005
COPYRIGHT (C) 2005 American Chemical Society (ACS)

COST IN U.S. DOLLARS

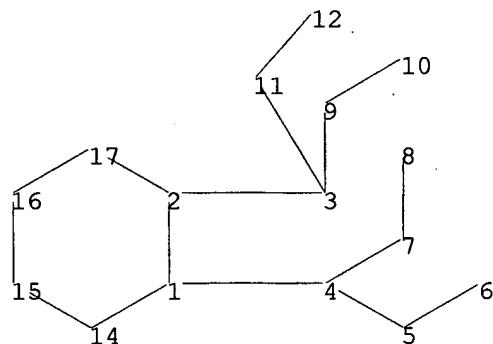
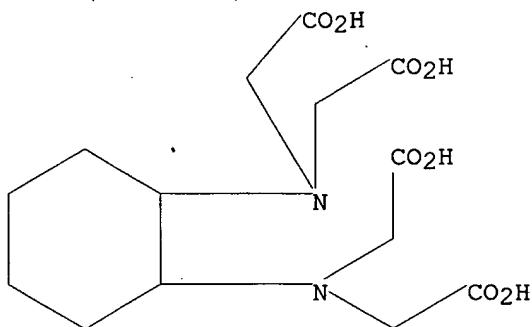
SINCE FILE TOTAL

FULL ESTIMATED COST

ENTRY 0.86 SESSION 1.07

=>

Uploading C:\Documents and Settings\PZucker\My Documents\Examination Auxillary files\10731123\10731123 tetraacetic acid.str



chain nodes :

3 4 5 6 7 8 9 10 11 12

ring nodes :

1 2 14 15 16 17

chain bonds :

1-4 2-3 3-11 3-9 4-5 4-7 5-6 7-8 9-10 11-12

ring bonds :

1-14 1-2 2-17 14-15 15-16 16-17

exact/norm bonds :

1-14 1-2 1-4 2-17 2-3 3-11 3-9 4-5 4-7 14-15 15-16 16-17

exact bonds :

5-6 7-8 9-10 11-12

Match level :

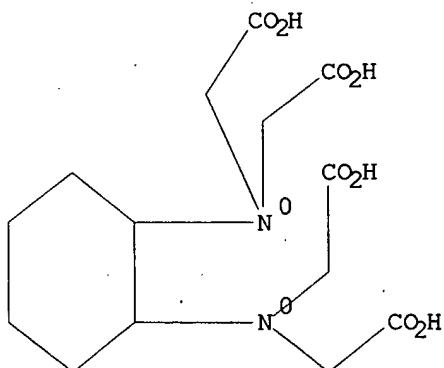
1:Atom 2:Atom 3:Atom 4:Atom 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS
10:CLASS 11:CLASS 12:CLASS 14:Atom 15:Atom 16:Atom 17:Atom

L2 STRUCTURE UPLOADED

=> d 12

L2 HAS NO ANSWERS

L2 STR



Structure attributes must be viewed using STN Express query preparation.

=> logoff hold
COST IN U.S. DOLLARS

| | |
|---------------------|------------------|
| SINCE FILE
ENTRY | TOTAL
SESSION |
| 1.29 | 1.50 |

SESSION WILL BE HELD FOR 60 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 09:57:27 ON 07 JUL 2005

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID: SSSPTA1623PAZ

PASSWORD:

* * * * * RECONNECTED TO STN INTERNATIONAL * * * * *

SESSION RESUMED IN FILE 'REGISTRY' AT 10:28:05 ON 07 JUL 2005

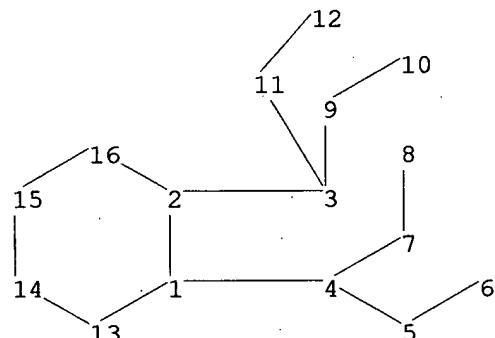
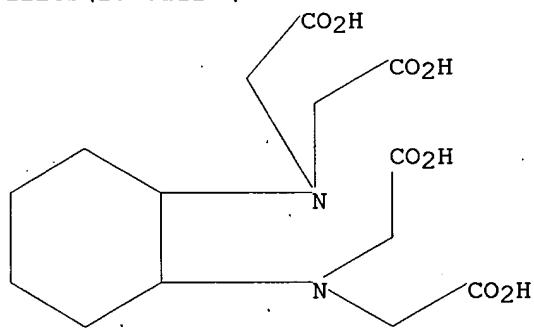
FILE 'REGISTRY' ENTERED AT 10:28:05 ON 07 JUL 2005

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COST IN U.S. DOLLARS

| | |
|---------------------|------------------|
| SINCE FILE
ENTRY | TOTAL
SESSION |
| 1.29 | 1.50 |

=>
Uploading C:\Documents and Settings\PZucker\My Documents\Examination Auxillary files\10731123\10731123 tetraacetic acid N .str



chain nodes :=

chain nodes :

ring nodes :

1 2 13 14 15 16

chain bonds :

1-4 2-3 3-

ring bonds :

1-13 1-2 2-16 1

exact/norm bonds :

1-13 1-2 1-4

exact bonds :

5-6 7-8 9

Match level :

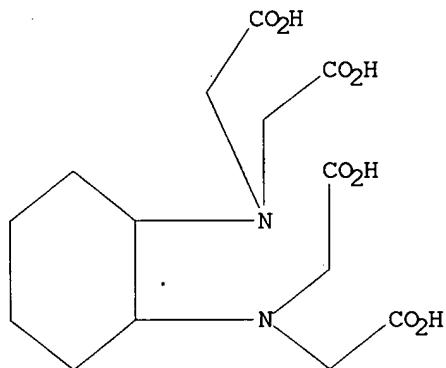
1:Atom 2:Atom 3:Atom 4:Atom 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS
10:CLASS 11:CLASS 12:CLASS 13:Atom 14:Atom 15:Atom 16:Atom

L3 STRUCTURE UPLOADED

=> d 13

L3 HAS NO ANSWERS

L3 STR



Structure attributes must be viewed using STN Express query preparation.

=> search l3 exact full

FULL SEARCH INITIATED 10:29:33 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 48 TO ITERATE

100.0% PROCESSED 48 ITERATIONS

SEARCH TIME: 00.00.01

15 ANSWERS

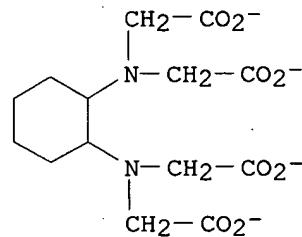
L4 15 SEA EXA FUL L3

=> d scan

L4 15 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN

IN Acetic acid, (1,2-cyclohexylenedinitrilo)tetra-, ion(4-), trans-(-)- (8CI)

MF C14 H18 N2 O8



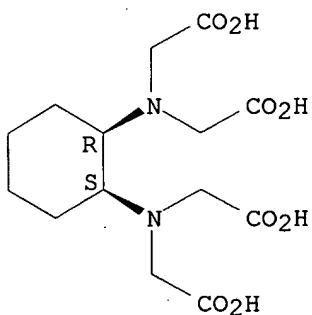
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):15

L4 15 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN

IN Glycine, N,N'-(1R,2S)-1,2-cyclohexanediylibis[N-(carboxymethyl)-, rel-(9CI)]

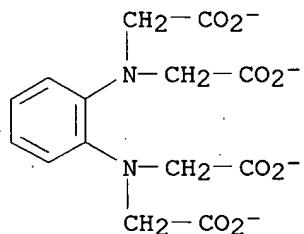
MF C14 H22 N2 O8

Relative stereochemistry.

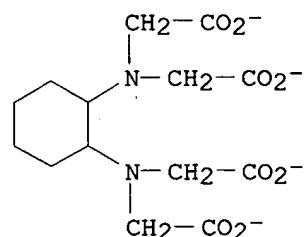


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

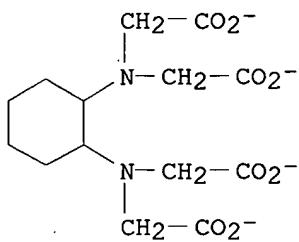
L4 15 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN Glycine, N,N'-1,2-phenylenebis[N-(carboxymethyl)-, ion(4-) (9CI)
MF C14 H12 N2 O8



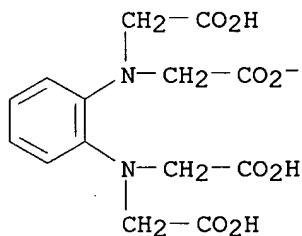
L4 15 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN Glycine, N,N'-1,2-cyclohexanediylbis[N-(carboxymethyl)-, ion(4-) (9CI)
MF C14 H18 N2 O8



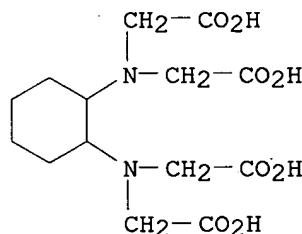
L4 15 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN Acetic acid, (1,2-cyclohexylenedinitrilo)tetra-, ion(4-), trans-(+)- (8CI)
MF C14 H18 N2 O8



L4 15 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
 IN Glycine, N,N'-1,2-phenylenebis[N-(carboxymethyl)-, ion(1-) (9CI)
 MF C14 H15 N2 O8



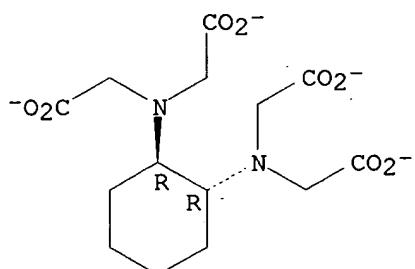
L4 15 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
 IN Glycine, N,N'-1,2-cyclohexanediylbis[N-(carboxymethyl)- (9CI)
 MF C14 H22 N2 O8
 CI COM



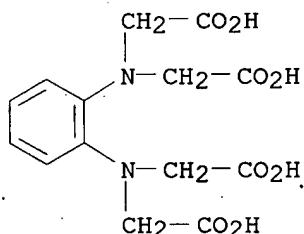
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L4 15 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
 IN Glycine, N,N'-(1R,2R)-1,2-cyclohexanediylbis[N-(carboxymethyl)-, ion(4-),
 rel- (9CI)
 MF C14 H18 N2 O8

Relative stereochemistry.

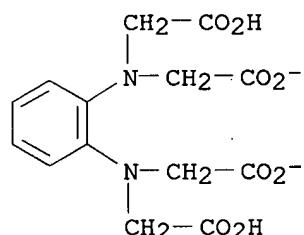


L4 15 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
 IN Glycine, N,N'-1,2-phenylenebis[N-(carboxymethyl)- (9CI)
 MF C14 H16 N2 O8
 CI COM



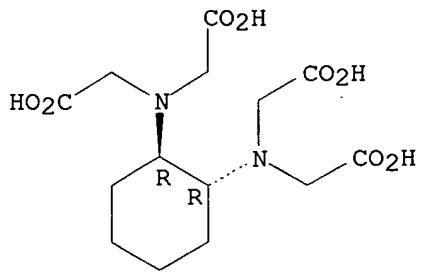
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L4 15. ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
 IN Glycine, N,N'-1,2-phenylenebis[N-(carboxymethyl)-, ion(2-) (9CI)
 MF C14 H14 N2 O8



L4 15 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
 IN Glycine, N,N'-(1R,2R)-1,2-cyclohexanediylbis[N-(carboxymethyl)-, rel-
 (9CI)
 MF C14 H22 N2 O8
 CI COM

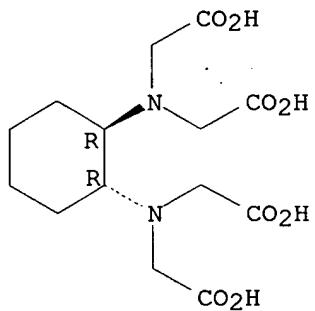
Relative stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

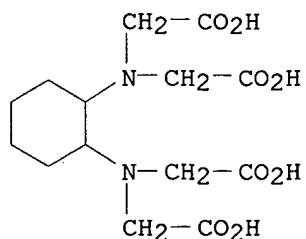
L4 15 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
 IN Glycine, N,N'-(1R,2R)-1,2-cyclohexanediyl]bis[N-(carboxymethyl)- (9CI)
 MF C14 H22 N2 O8
 CI COM

Absolute stereochemistry.



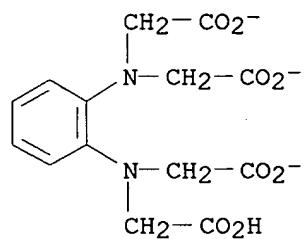
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L4 15 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
 IN Glycine, N,N'-1,2-cyclohexanediylbis[N-(carboxymethyl)-, monooxo deriv.
 (9CI)
 MF C14 H20 N2 O9
 CI IDS



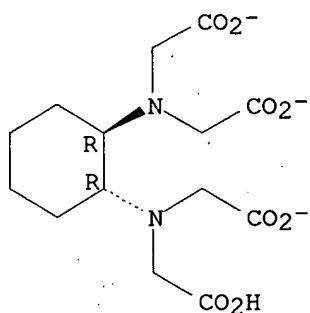
D2=O

L4 15 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
 IN Glycine, N,N'-1,2-phenylenebis[N-(carboxymethyl)-, ion(3-)] (9CI)
 MF C14 H13 N2 O8



L4 15 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
 IN Glycine, N,N'-1,2-cyclohexanediylibis[N-(carboxymethyl)-, ion(3-), trans-] (9CI)
 MF C14 H19 N2 O8

Relative stereochemistry.



ALL ANSWERS HAVE BEEN SCANNED

=> file caplus
 COST IN U.S. DOLLARS
 FULL ESTIMATED COST

| SINCE FILE ENTRY | TOTAL SESSION |
|------------------|---------------|
| 57.26 | 57.47 |

FILE 'CAPLUS' ENTERED AT 10:30:16 ON 07 JUL 2005

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FILE LAST UPDATED: 6 Jul 2005 (20050706/ED)

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This file contains CAS Registry Numbers for easy and accurate substance identification.

=> 14
L5 1775 L4

=> save temp 15 rawacids
RAWACIDS IS NOT A VALID SAVED NAME
Enter the name you wish to use for the saved query,
answer set, or L-number list. The name must:
1. Begin with a letter,
2. Have 1-12 characters,
3. Contain only letters (A-Z) and numbers (0-9),
4. End with /Q for a query (search profile,
structure, or screen set), /A for an answer
set, or /L for an L-number list.
5. Not already be in use as a saved name,
6. Not be END, SAV, SAVE, SAVED
7. Not have the form of an L-number (Lnnn).
ENTER NAME OR (END):end

=> save temp 15 rawacids/a
ANSWER SET L5 HAS BEEN SAVED AS 'RAWACIDS/A'

=> 14/prep
1775 L4
3326044 PREP/RL
L6 95 L4/PREP
(L4 (L) PREP/RL)

=> save temp 16 acidprep/a
ANSWER SET L6 HAS BEEN SAVED AS 'ACIDPREP/A'

| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|----------------------|------------------|---------------|
| FULL ESTIMATED COST | 3.24 | 60.71 |

FILE 'CARPLUS' ENTERED AT 10:32:15 ON 07 JUL 2005
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FILE COVERS 1907 - 7 Jul 2005 VOL 143 ISS 2
FILE LAST UPDATED: 6 Jul 2005 (20050706/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> e chloroacetic acid/cn

REGISTRY INITIATED

Substance data EXPAND from CAS REGISTRY in progress...

| | | |
|-----|---|--|
| E1 | 1 | CHLOROACETIC 2-(ETHOXCARBONYL)HYDRAZIDE/CN |
| E2 | 1 | CHLOROACETIC ACETIC ANHYDRIDE/CN |
| E3 | 1 | --> CHLOROACETIC ACID/CN |
| E4 | 1 | CHLOROACETIC ACID (1R,2S,5R)-5-METHYL-2-(1-METHYLETHYL)CYCLOHEXYL ESTER/CN |
| E5 | 1 | CHLOROACETIC ACID 1',2',4'-TRIMETHYLPENT-2'-ENYL ESTER/CN |
| E6 | 1 | CHLOROACETIC ACID 1,1-DIMETHYLETHYL ESTER/CN |
| E7 | 1 | CHLOROACETIC ACID 1-(2,2-DIMETHYL-1-OXOPROPYL)-1H-INDOL-6-YL ESTER/CN |
| E8 | 1 | CHLOROACETIC ACID 3,5-DICHLOROANILIDE/CN |
| E9 | 1 | CHLOROACETIC ACID 4-CHLOROANILIDE/CN |
| E10 | 1 | CHLOROACETIC ACID ANHYDRIDE/CN |
| E11 | 1 | CHLOROACETIC ACID BENZYL ESTER/CN |
| E12 | 1 | CHLOROACETIC ACID CESIUM SALT (2:1)/CN |

=> file reg

| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|----------------------|------------------|---------------|
| FULL ESTIMATED COST | 0.45 | 62.04 |

FILE 'REGISTRY' ENTERED AT 10:32:42 ON 07 JUL 2005
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
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STRUCTURE FILE UPDATES: 6 JUL 2005 HIGHEST RN 853990-77-9
DICTIONARY FILE UPDATES: 6 JUL 2005 HIGHEST RN 853990-77-9

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

Please note that search-term pricing does apply when conducting SmartSELECT searches.

*
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added, *
* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *
*

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:

<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> e chloroacetic acid/cn

| | | |
|-----|---|---|
| E1 | 1 | CHLOROACETIC 2-(ETHOXCARBONYL) HYDRAZIDE/CN |
| E2 | 1 | CHLOROACETIC ACETIC ANHYDRIDE/CN |
| E3 | 1 | --> CHLOROACETIC ACID/CN |
| E4 | 1 | CHLOROACETIC ACID (1R,2S,5R)-5-METHYL-2-(1-METHYLETHYL) CYCLOHEXYL ESTER/CN |
| E5 | 1 | CHLOROACETIC ACID 1',2',4'-TRIMETHYLPENT-2'-ENYL ESTER/CN |
| E6 | 1 | CHLOROACETIC ACID 1,1-DIMETHYLETHYL ESTER/CN |
| E7 | 1 | CHLOROACETIC ACID 1-(2,2-DIMETHYL-1-OXOPROPYL)-1H-INDOL-6-YL ESTER/CN |
| E8 | 1 | CHLOROACETIC ACID 3,5-DICHLOROANILIDE/CN |
| E9 | 1 | CHLOROACETIC ACID 4-CHLOROANILIDE/CN |
| E10 | 1 | CHLOROACETIC ACID ANHYDRIDE/CN |
| E11 | 1 | CHLOROACETIC ACID BENZYL ESTER/CN |
| E12 | 1 | CHLOROACETIC ACID CESIUM SALT (2:1)/CN |

=> e3

L7 1 "CHLOROACETIC ACID"/CN

=> e bromoacetic acid/cn

| | | |
|-----|---|--|
| E1 | 1 | BROMOACETATE(1-)/CN |
| E2 | 1 | BROMOACETAZOLAMIDE/CN |
| E3 | 1 | --> BROMOACETIC ACID/CN |
| E4 | 1 | BROMOACETIC ACID 1,1-DIMETHYLETHYL ESTER/CN |
| E5 | 1 | BROMOACETIC ACID 1,2-ETHANEDIYL ESTER/CN |
| E6 | 1 | BROMOACETIC ACID 1,2-ETHANEDIYL ESTER-BROMOACETIC ACID 1-METHYL-1,2-ETHANEDIYL ESTER MIXTURE/CN |
| E7 | 1 | BROMOACETIC ACID 1-METHYL-1,2-ETHANEDIYL ESTER/CN |
| E8 | 1 | BROMOACETIC ACID 2,2,2-TRIFLUOROETHYL ESTER/CN |
| E9 | 1 | BROMOACETIC ACID 2-((1,1-DIMETHYLETHOXY) CARBONYL) HYDRAZIDE/CN |
| E10 | 1 | BROMOACETIC ACID 2-((1-(2-OXO-1,2-DIHYDROINDOL-3-YLIDENE)-1,3-DIHYDROISOBENZOFURAN-5-YL) AMINO) ETHYL ESTER/CN |
| E11 | 1 | BROMOACETIC ACID 2-(2-METHOXYETHOXY) ETHYL ESTER/CN |
| E12 | 1 | BROMOACETIC ACID 2-BROMOETHYL ESTER/CN |

=> e3

L8 1 "BROMOACETIC ACID"/CN

=> e iodoacetic acid/cn

| | | |
|----|---|---|
| E1 | 1 | IDOACETAMIDE-1-14C/CN |
| E2 | 1 | IDOACETAMIDONAPHTHOL/CN |
| E3 | 1 | --> IODOACETIC ACID/CN |
| E4 | 1 | IDOACETIC ACID 1-METHYL-2-PROPENYL ESTER/CN |
| E5 | 1 | IDOACETIC ACID 2,2-DIMETHYL-4-PENTENYL ESTER/CN |
| E6 | 1 | IDOACETIC ACID 2-((1,1-DIMETHYLETHOXY) CARBONYL) HYDRAZIDE/CN |

E7 1 IODOACETIC ACID 2-METHYL-2-PROPENYL ESTER/CN
E8 1 IODOACETIC ACID 2-PENTENYL ESTER/CN
E9 1 IODOACETIC ACID 2-PROPENYL ESTER/CN
E10 1 IODOACETIC ACID 3-BUTENYL ESTER/CN
E11 1 IODOACETIC ACID 4-PENTENYL ESTER/CN
E12 1 IODOACETIC ACID 5-HEXENYL ESTER/CN

=> e3
L9 1 "IODOACETIC ACID"/CN

=> file caplus
COST IN U.S. DOLLARS SINCE FILE TOTAL
ENTRY SESSION
FULL ESTIMATED COST 14.66 76.70

FILE 'CAPLUS' ENTERED AT 10:33:48 ON 07 JUL 2005
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
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FILE COVERS 1907 - 7 Jul 2005 VOL 143 ISS 2
FILE LAST UPDATED: 6 Jul 2005 (20050706/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> 17
L10 9360 L7

=> 17 or 18 or 19
9360 L7
2967 L8
3375 L9
L11 14348 L7 OR L8 OR L9

=> d his

(FILE 'HOME' ENTERED AT 09:53:03 ON 07 JUL 2005)

FILE 'REGISTRY' ENTERED AT 09:53:11 ON 07 JUL 2005

L1 STRUCTURE UPLOADED
L2 STRUCTURE UPLOADED
L3 STRUCTURE UPLOADED
L4 15 SEARCH L3 EXACT FULL

FILE 'CAPLUS' ENTERED AT 10:30:16 ON 07 JUL 2005

L5 1775 L4
SAVE TEMP L5 RAWACIDS/A
L6 95 L4/PREP
SAVE TEMP L6 ACIDPREP/A

FILE 'CAPLUS' ENTERED AT 10:32:15 ON 07 JUL 2005

FILE 'REGISTRY' ENTERED AT 10:32:30 ON 07 JUL 2005
E CHLOROACETIC ACID/CN

FILE 'CAPLUS' ENTERED AT 10:32:30 ON 07 JUL 2005

FILE 'REGISTRY' ENTERED AT 10:32:42 ON 07 JUL 2005
E CHLOROACETIC ACID/CN

L7 1 E3
E BROMOACETIC ACID/CN
L8 1 E3
E IODOACETIC ACID/CN
L9 1 E3

FILE 'CAPLUS' ENTERED AT 10:33:48 ON 07 JUL 2005

L10 9360 L7
L11 14348 L7 OR L8 OR L9

=> l6 and l11
L12 5 L6 AND L11

=> d 112 1-5 ti fbib abs

L12 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2005 ACS on STN
TI Preparation and purification of 1,2-diaminocyclohexanetetraacetic acid as hydroxylamine compound stabilizer

AN 2005:527467 CAPLUS

DN 143:26880

TI Preparation and purification of 1,2-diaminocyclohexanetetraacetic acid as hydroxylamine compound stabilizer

IN Ward, Irl E.; French, Danielle

PA USA

SO U.S. Pat. Appl. Publ., 5 pp.

CODEN: USXXCO

DT Patent

LA English

FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|----|---------------|------|----------|-----------------|----------|
| PI | US 2005131250 | A1 | 20050616 | US 2003-731123 | 20031210 |
| | | | | US 2003-731123 | 20031210 |

AB The invention relates to the preparation of ultra-high purity 1,2-diaminocyclohexanetetraacetic acid which is essentially free of unwanted metal and metal ion contaminants and its use as a stabilizer for ultra-high purity hydroxylamine compds. used extensively in the production of high premium electronic components. The process comprises the steps: (a) neutralizing an aqueous solution of chloroacetic acid with a non-metal amino or hydroxide base, (b) reacting cis- or trans-1,2-diaminocyclohexane with the neutralized chloroacetic acid at an elevated temperature, (c) treating the product with a non-metal amino or hydroxide base and then with acid, and recovering the product formed.

L12 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2005 ACS on STN

TI Preparation and purification of 1,2-diaminocyclohexanetetraacetic acid for use as stabilizer for hydroxylamine compounds

AN 2004:493595 CAPLUS

DN 141:23905

TI Preparation and purification of 1,2-diaminocyclohexanetetraacetic acid for use as stabilizer for hydroxylamine compounds

IN Ward, Irl E.; French, Danielle Anne

PA BASF Aktiengesellschaft, USA

SO U.S. Pat. Appl. Publ., 5 pp.

CODEN: USXXCO

DT Patent

LA English

FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|----|---------------|--|----------|-----------------|------------|
| PI | US 2004116735 | A1 | 20040617 | US 2002-320082 | 20021216 |
| | US 6867327 | B2 | 20050315 | | |
| | EP 1431276 | A1 | 20040623 | EP 2003-27356 | 20031127 |
| | | R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK | | US 2002-320082 | A 20021216 |
| | JP 2004196796 | A2 | 20040715 | JP 2003-414120 | 20031212 |
| | | | | US 2002-320082 | A 20021216 |

OS CASREACT 141:23905

AB The invention relates to the preparation of ultra-high purity 1,2-diaminocyclohexanetetraacetic acid (CDTA) which is essentially free of unwanted metal and metal ion contaminants and its use as a stabilizer for ultra-high purity hydroxylamine compds. used extensively in the production of high premium electronic components. The process for the preparation of CDTA comprising the steps of: (a) neutralizing chloroacetic acid in an aqueous medium with a non-metal amino or hydroxy base compound at < 10°C, (b) reacting the neutralized chloroacetic acid with 1,2-diaminocyclohexane at < 80°C., (c) adding a non-metal amino or hydroxy base, (d) heating the aqueous mixture at < 100°C, (e) filtering the mixture, (f) treating the aqueous filtrate with hydrochloric acid until a precipitate forms, (g) filtering the aqueous filtrate, and (h) recovering CDTA and optionally redissolving the 1,2-diaminocyclohexanetetraacetic acid in an aqueous solution and repeating steps (c) to (g).

L12 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2005 ACS on STN

TI Synthesis and study of 1,2-cyclohexylenedinitrilotetraacetic acid

AN 2001:844768 CAPLUS

DN 136:296484

TI Synthesis and study of 1,2-cyclohexylenedinitrilotetraacetic acid

AU Xu, Ying; Cao, Jun; Jin, Qiao

CS Investment Planing Center of Fushun, Fushun, 113006, Peop. Rep. China

SO Shiyou Huagong Gaodeng Xuexiao Xuebao (2001), 14(3), 36-39

CODEN: SHGXEC; ISSN: 1006-396X

PB Shiyou Huagong Gaodeng Xuexiao Xuebao Bianjibu

DT Journal

LA Chinese

AB The preparation methods of 1,2-cyclohexylenedinitrilotetraacetic acid (DCTA) are discussed in detail when cyclohexadiamine is used as the material, and the effect of reaction temperature, reaction time, the molar ratio of the material on the yield is investigated by the orthogonal design. The optimum reaction conditions are obtained: n(1,2-cyclohexanediamine): n(chloro acetic acid) = 1:6; The reaction temperature is 50°, the reaction time is 7 h. With low costs, mild reaction conditions, this process provides a new method for the deep processing of 1,2-cyclohexanediamine. The performance figures of this product have reached or exceeded the quality standard of the input reagent; the chemical property of DCTA and EDTA are compared by the application test, and the result shows that the quality of DCTA product is reliable and stable and the performance is fine. Thus it can be used as substitution of EDTA in the chemical industry.

L12 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2005 ACS on STN

TI Tetraacids derived from o-diamines: o-phenylenediamine-N,N,N',N'-tetraacetic acid and the monopotassium salt of 3,4-toluenediamine-

N,N,N',N'-tetraacetic acid
 AN 1985:148615 CAPLUS
 DN 102:148615
 TI Tetraacids derived from o-diamines: o-phenylenediamine-N,N,N',N'-tetraacetic acid and the monopotassium salt of 3,4-toluenediamine-N,N,N',N'-tetraacetic acid
 AU Mederos, A.; Herrera, J. V.; Felipe, J. M.; Quesada, M. L.
 CS Fac. Quim., Univ. La Laguna, La Laguna, Spain
 SO Anales de Quimica, Serie B: Quimica Inorganica y Quimica Analitica (1984), 80(3), 281-7
 CODEN: AQSAD3; ISSN: 0211-1349
 DT Journal
 LA Spanish
 AB The title acids were prepared, their IR, UV, H1 NMR, and mass spectra were analyzed, and their pKa in H2O were determined

L12 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2005 ACS on STN
 TI Comparison of the structures and aqueous solutions of [(o-phenylenediaminetetraacetato(2-)]cobalt(II) and [ethylenediaminetetraacetato(2-)]cobalt(II)
 AN 1978:202291 CAPLUS
 DN 88:202291
 TI Comparison of the structures and aqueous solutions of [(o-phenylenediaminetetraacetato(2-)]cobalt(II) and [ethylenediaminetetraacetato(2-)]cobalt(II)
 AU McCandlish, E. F. K.; Michael, T. K.; Neal, J. A.; Lingafelter, E. C.; Rose, N. J.
 CS Chem. Dep., Univ. Washington, Seattle, WA, USA
 SO Inorganic Chemistry (1978), 17(6), 1383-94
 CODEN: INOCAJ; ISSN: 0020-1669
 DT Journal
 LA English
 AB The crystal structure of Na2[Co(H2O)6][Co(PhDTA)]2·4H2O (I) (H4PhDTA = o-phenylenediaminetetraacetic acid) was determined and refined. The crystal structure of the previously known [Co(H2O)4CoL]·2H2O (II) (H4L = EDTA) was refined. Crystallog. data are for I, a 14.1258(8), b 9.3649(6), c 8.5014(6) Å, α 98.760(6) $^\circ$, β 100.649(6) $^\circ$, γ 111.223(6) $^\circ$, space group P.hivin.1, Z = 1, R = 0.032; and for II, a 14.504(4), b 9.719(3), c 13.280(4) Å, space group Pna21, Z = 4, R = 0.032. For both the coordination polyhedra of CoL2- and CoPhDTA2- there is significant distortion from an octahedron. For CoL2- the polyhedron is twisted much more away from a trigonal-prismatic and toward an antiprismatic configuration (octahedron) than is CoPhDTA2-. This smaller twist of CoPhDTA2- is due to several factors, among which are the nearly planar N-C-C-N linkages in PhDTA4- and the changes in the interligand atom repulsions caused by the shorter N-N bite in CoPhDTA2-. Evidence is presented which indicates that PhDTA4- serves as a hexadentate ligand over a wider pH range than does L4-. This observation is accounted for in terms of the stereochem. of PhDTA4-.

=> save temp all teraacidsrch/l
 L# LIST L1-L12 HAS BEEN SAVED AS 'TERAACIDSRCH/L'

=> logoff hold

COST IN U.S. DOLLARS

| SINCE FILE ENTRY | TOTAL SESSION |
|------------------|---------------|
|------------------|---------------|

FULL ESTIMATED COST

15.95 92.65

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

| SINCE FILE ENTRY | TOTAL SESSION |
|------------------|---------------|
|------------------|---------------|

CA SUBSCRIBER PRICE

-3.65 -3.65

SESSION WILL BE HELD FOR 60 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 10:37:21 ON 07 JUL 2005

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSSPTA1623PAZ

PASSWORD:

* * * * * RECONNECTED TO STN INTERNATIONAL * * * * *
SESSION RESUMED IN FILE 'CAPLUS' AT 11:27:03 ON 07 JUL 2005
FILE 'CAPLUS' ENTERED AT 11:27:03 ON 07 JUL 2005
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| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|--|------------------|---------------|
| FULL ESTIMATED COST | 15.95 | 92.65 |
| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE ENTRY | TOTAL SESSION |
| CA SUBSCRIBER PRICE | -3.65 | -3.65 |
| => logoff hold | | |
| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
| FULL ESTIMATED COST | 15.95 | 92.65 |
| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE ENTRY | TOTAL SESSION |
| CA SUBSCRIBER PRICE | -3.65 | -3.65 |

SESSION WILL BE HELD FOR 60 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 11:27:11 ON 07 JUL 2005

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSSPTA1623PAZ

PASSWORD:

* * * * * RECONNECTED TO STN INTERNATIONAL * * * * *
SESSION RESUMED IN FILE 'CAPLUS' AT 11:53:20 ON 07 JUL 2005
FILE 'CAPLUS' ENTERED AT 11:53:20 ON 07 JUL 2005
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| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|--|------------------|---------------|
| FULL ESTIMATED COST | 15.95 | 92.65 |
| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE ENTRY | TOTAL SESSION |
| CA SUBSCRIBER PRICE | -3.65 | -3.65 |

=> d his

(FILE 'HOME' ENTERED AT 09:53:03 ON 07 JUL 2005)

FILE 'REGISTRY' ENTERED AT 09:53:11 ON 07 JUL 2005

L1 STRUCTURE uploaded
L2 STRUCTURE uploaded
L3 STRUCTURE uploaded
L4 15 SEARCH L3 EXACT FULL

FILE 'CAPLUS' ENTERED AT 10:30:16 ON 07 JUL 2005

L5 1775 L4
SAVE TEMP L5 RAWACIDS/A
L6 95 L4/PREP
SAVE TEMP L6 ACIDPREP/A

FILE 'CAPLUS' ENTERED AT 10:32:15 ON 07 JUL 2005

FILE 'REGISTRY' ENTERED AT 10:32:30 ON 07 JUL 2005
E CHLOROACETIC ACID/CN

FILE 'CAPLUS' ENTERED AT 10:32:30 ON 07 JUL 2005

FILE 'REGISTRY' ENTERED AT 10:32:42 ON 07 JUL 2005
E CHLOROACETIC ACID/CN

L7 1 E3
E BROMOACETIC ACID/CN
L8 1 E3
E IODOACETIC ACID/CN
L9 1 E3

FILE 'CAPLUS' ENTERED AT 10:33:48 ON 07 JUL 2005

L10 9360 L7
L11 14348 L7 OR L8 OR L9
L12 5 L6 AND L11
SAVE TEMP ALL TERAACIDSRC/L

=> logoff hold

| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|--|------------------|---------------|
| FULL ESTIMATED COST | 16.40 | 93.10 |
| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE ENTRY | TOTAL SESSION |
| CA SUBSCRIBER PRICE | -3.65 | -3.65 |

SESSION WILL BE HELD FOR 60 MINUTES

STN INTERNATIONAL SESSION SUSPENDED AT 11:53:38 ON 07 JUL 2005

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSSPTA1623PAZ

PASSWORD:

* * * * * RECONNECTED TO STN INTERNATIONAL * * * * *
SESSION RESUMED IN FILE 'CAPLUS' AT 11:55:28 ON 07 JUL 2005
FILE 'CAPLUS' ENTERED AT 11:55:28 ON 07 JUL 2005
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| COST IN U.S. DOLLARS | SINCE FILE | TOTAL |
|----------------------|------------|-------|
|----------------------|------------|-------|

| | ENTRY | SESSION |
|--|------------|---------|
| FULL ESTIMATED COST | 16.40 | 93.10 |
| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE | TOTAL |
| CA SUBSCRIBER PRICE | ENTRY | SESSION |
| | -3.65 | -3.65 |

=> ammonium
 348378 AMMONIUM
 395 AMMONIUMS
 L13 348522 AMMONIUM
 (AMMONIUM OR AMMONIUMS)

=> d his

(FILE 'HOME' ENTERED AT 09:53:03 ON 07 JUL 2005)

FILE 'REGISTRY' ENTERED AT 09:53:11 ON 07 JUL 2005

L1 STRUCTURE uploaded
 L2 STRUCTURE uploaded
 L3 STRUCTURE uploaded
 L4 15 SEARCH L3 EXACT FULL

FILE 'CAPLUS' ENTERED AT 10:30:16 ON 07 JUL 2005

L5 1775 L4
 SAVE TEMP L5 RAWACIDS/A
 L6 95 L4/PREP
 SAVE TEMP L6 ACIDPREP/A

FILE 'CAPLUS' ENTERED AT 10:32:15 ON 07 JUL 2005

FILE 'REGISTRY' ENTERED AT 10:32:30 ON 07 JUL 2005
 E CHLOROACETIC ACID/CN

FILE 'CAPLUS' ENTERED AT 10:32:30 ON 07 JUL 2005

FILE 'REGISTRY' ENTERED AT 10:32:42 ON 07 JUL 2005
 E CHLOROACETIC ACID/CN

L7 1 E3
 E BROMOACETIC ACID/CN
 L8 1 E3
 E IODOACETIC ACID/CN
 L9 1 E3

FILE 'CAPLUS' ENTERED AT 10:33:48 ON 07 JUL 2005

L10 9360 L7
 L11 14348 L7 OR L8 OR L9
 L12 5 L6 AND L11
 SAVE TEMP ALL TERAACIDSRCH/L
 L13 348522 AMMONIUM

=> l12 and l13

L14 1 L12 AND L13

=> d l14 ti fbib abs

L14 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2005 ACS on STN
 TI Preparation and purification of 1,2-diaminocyclohexanetetraacetic acid as
 hydroxylamine compound stabilizer
 AN 2005:527467 CAPLUS
 DN 143:26880
 TI Preparation and purification of 1,2-diaminocyclohexanetetraacetic acid as
 hydroxylamine compound stabilizer

IN Ward, Irl E.; French, Danielle
PA USA
SO U.S. Pat. Appl. Publ., 5 pp.
CODEN: USXXCO
DT Patent
LA English
FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|----|---------------|------|----------|-----------------|----------|
| PI | US 2005131250 | A1 | 20050616 | US 2003-731123 | 20031210 |
| | | | | US 2003-731123 | 20031210 |

AB The invention relates to the preparation of ultra-high purity 1,2-diaminocyclohexanetetraacetic acid which is essentially free of unwanted metal and metal ion contaminants and its use as a stabilizer for ultra-high purity hydroxylamine compds. used extensively in the production of high premium electronic components. The process comprises the steps: (a) neutralizing an aqueous solution of chloroacetic acid with a non-metal amino or hydroxide base, (b) reacting cis- or trans-1,2-diaminocyclohexane with the neutralized chloroacetic acid at an elevated temperature, (c) treating the product with a non-metal amino or hydroxide base and then with acid, and recovering the product formed.

=> logoff hold

| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|--|------------------|---------------|
| FULL ESTIMATED COST | 22.74 | 99.44 |
| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE ENTRY | TOTAL SESSION |
| CA SUBSCRIBER PRICE | -4.38 | -4.38 |

SESSION WILL BE HELD FOR 60 MINUTES

STN INTERNATIONAL SESSION SUSPENDED AT 11:57:44 ON 07 JUL 2005

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSSPSTA1623PAZ

PASSWORD:

* * * * * RECONNECTED TO STN INTERNATIONAL * * * * *
SESSION RESUMED IN FILE 'CAPLUS' AT 12:06:33 ON 07 JUL 2005
FILE 'CAPLUS' ENTERED AT 12:06:33 ON 07 JUL 2005
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| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|--|------------------|---------------|
| FULL ESTIMATED COST | 22.74 | 99.44 |
| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE ENTRY | TOTAL SESSION |
| CA SUBSCRIBER PRICE | -4.38 | -4.38 |

=> potassium hydroxide

562716 POTASSIUM

15 POTASSIUMS

562718 POTASSIUM

(POTASSIUM OR POTASSIUMS)

260076 HYDROXIDE
43703 HYDROXIDES
281431 HYDROXIDE
(HYDROXIDE OR HYDROXIDES)
L15 32370 POTASSIUM HYDROXIDE
(POTASSIUM(W) HYDROXIDE)

=> sodium hydroxide
985042 SODIUM
34 SODIUMS
985051 SODIUM
(SODIUM OR SODIUMS)
260076 HYDROXIDE
43703 HYDROXIDES
281431 HYDROXIDE
(HYDROXIDE OR HYDROXIDES)
L16 77891 SODIUM HYDROXIDE
(SODIUM(W) HYDROXIDE)

=> l16 or l15
L17 98787 L16 OR L15

=> d his

(FILE 'HOME' ENTERED AT 09:53:03 ON 07 JUL 2005)

FILE 'REGISTRY' ENTERED AT 09:53:11 ON 07 JUL 2005

L1 STRUCTURE UPLOADED
L2 STRUCTURE UPLOADED
L3 STRUCTURE UPLOADED
L4 15 SEARCH L3 EXACT FULL

FILE 'CAPLUS' ENTERED AT 10:30:16 ON 07 JUL 2005

L5 1775 L4
SAVE TEMP L5 RAWACIDS/A
L6 95 L4/PREP
SAVE TEMP L6 ACIDPREP/A

FILE 'CAPLUS' ENTERED AT 10:32:15 ON 07 JUL 2005

FILE 'REGISTRY' ENTERED AT 10:32:30 ON 07 JUL 2005
E CHLOROACETIC ACID/CN

FILE 'CAPLUS' ENTERED AT 10:32:30 ON 07 JUL 2005

FILE 'REGISTRY' ENTERED AT 10:32:42 ON 07 JUL 2005
E CHLOROACETIC ACID/CN

L7 1 E3
E BROMOACETIC ACID/CN
L8 1 E3
E IODOACETIC ACID/CN
L9 1 E3

FILE 'CAPLUS' ENTERED AT 10:33:48 ON 07 JUL 2005

L10 9360 L7
L11 14348 L7 OR L8 OR L9
L12 5 L6 AND L11
SAVE TEMP ALL TERAACIDSrch/L
L13 348522 AMMONIUM
L14 1 L12 AND L13
L15 32370 POTASSIUM HYDROXIDE
L16 77891 SODIUM HYDROXIDE
L17 98787 L16 OR L15

=> l12 and l17
L18 1 L12 AND L17

=> d l18 ti

L18 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2005 ACS on STN
TI Preparation and purification of 1,2-diaminocyclohexanetetraacetic acid as
hydroxylamine compound stabilizer

=> logoff hold

| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|--|------------------|---------------|
| FULL ESTIMATED COST | 31.97 | 108.67 |
| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE ENTRY | TOTAL SESSION |
| CA SUBSCRIBER PRICE | -4.38 | -4.38 |

SESSION WILL BE HELD FOR 60 MINUTES

STN INTERNATIONAL SESSION SUSPENDED AT 12:08:12 ON 07 JUL 2005